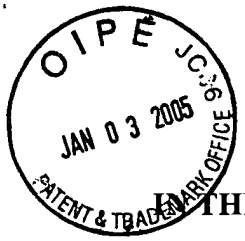
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PATENT
Attorney Docket No. ACD-002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):	Bogomolov et al.		
SERIAL NO.:	10/668,111	GROUP NO.:	1614
FILING DATE:	September 19, 2003	EXAMINER:	Not yet assigned
TITLE:	Methods for Characterizing a Mixture of Chemical Compounds		

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 29th day of December, 2004.

Kelly B. Ciarmataro

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is/are:

1. Transmittal Form (1 pg.);
2. Supplemental Information Disclosure Statement (2 pgs.);
3. Form PTO-1449 (2 pgs.);
4. Copies of Cited References C8-C24; and
5. Return Receipt Postcard.

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TRANSMITTAL FORM

Application Serial Number	10/668,111
Filing Date	September 19, 2003
First Named Inventor	Bogomolov
Group Art Unit	1614
Examiner Name	Not Yet Assigned
Attorney Docket No.	ACD-002
Patent No.	Not applicable
Issue Date	Not applicable

ENCLOSURES *(check all that apply)*

- ☐ Fee Transmittal Form
 - ☐ Check Attached
 - ☐ Copy of Fee Transmittal Form
- ☐ Amendment/Response
 - ☐ Preliminary
 - ☐ After Final
 - ☐ Affidavits/declaration(s)
 - ☐ Letter to Official Draftsperson including Drawings [Total Sheets _____]
- ☐ Petition for Extension of Time
- ☒ Information Disclosure Statement
 - ☒ Form PTO-1449
 - ☒ Copies of IDS Citations C8-C24
- ☐ Certified Copy of Priority Document(s)
- ☐ Sequence Listing submission
 - ☐ Paper Copy/CD
 - ☐ Computer Readable Copy
 - ☐ Statement verifying identity of above
- ☐ Copy of Notice to File Missing Parts of Application
- ☐ Formal Drawing(s)
- ☐ Request For Continued Examination (RCE) Transmittal
- ☐ Power of Attorney (Revocation of Prior Powers)
- ☐ Terminal Disclaimer
- ☐ Executed Declaration and Power of Attorney for Utility or Design Patent Application
- ☐ Small Entity Statement
- ☐ CD(s) for large table or computer program
- ☐ Amendment After Allowance
- ☐ Request for Certificate of Correction
 - ☐ Certificate of Correction (in duplicate)
- ☐ Notice of Appeal to Board of Patent Appeals and Interferences
- ☐ Appeal Brief (in triplicate)
- ☐ Status Inquiry
- ☒ Return Receipt Postcard
- ☒ Certificate of First Class Mailing under 37 C.F.R. 1.8
- ☐ Certificate of Facsimile Transmission under 37 C.F.R. 1.8
- ☐ Additional Enclosure(s) *(please identify below)*

CORRESPONDENCE ADDRESS

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High Street Tower
125 High Street
Boston, MA 02110
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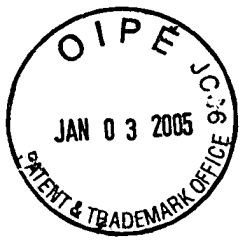
SIGNATURE BLOCK

Respectfully submitted,

Date: December 29, 2004
Reg. No. 54,089
Tel. No.: (617) 310-8414
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James E. Fajkowski
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PATENT
Attorney Docket No. ACD-002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):	Bogomolov et al.		
SERIAL NO.:	10/668,111	GROUP NO.:	1614
FILING DATE:	September 19, 2003	EXAMINER:	Not yet assigned
TITLE:	Methods for Characterizing a Mixture of Chemical Compounds		

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), copies of the non-patent publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or

☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and

☐ the requisite Statement is below, **OR**

☐ the requisite fee under 37 C.F.R. 1.17(p), namely **$180.00**, is included herein, or

☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee, AND**

☐ the requisite Statement is below, **AND**

☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **$180.00** is included herein.

It is respectfully requested that each of the publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that **[check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]**:

☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or

☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Date: December 29, 2004
Reg. No. 54,089

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FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: ACD-002 APPLICANT(S): Bogomolov et al. SERIAL NO.: 10/668,111 FILING DATE: September 19, 2003 GROUP: 1614

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C8	K. De Braekeleer et al., *Evaluation of the orthogonal projection approach (OPA) and the SIMPLISMA approach on the Windig standard spectral data sets*, Chemometrics Intelligent Laboratory Systems 39, 1997, p. 127-141
	C9	O. Exner, *Additive Physical Properties I. General Relationships and Problems of Statistical Nature*, Collection Czechoslov. Chem. Commun./Vol. 31, 1966, p. 3222-3251
	C10	M. Gorenstein et al., *Detecting Coeluted Impurities by Spectral Comparison*, LC-GC, Vol. 12, No. 10, October 1994, p. 768-772
	C11	B. Grande et al., *Use of convexity for finding pure variables in two-way data from mixtures*, Chemometrics Intelligent Laboratory Systems 50, 2000, p. 19-33
	C12	W.J. Krzanowski, *Selection of Variables to preserve Multivariate Data Structure, using Principal Components*, Appl. Statist. 36, No. 1, 1987, p. 22-33
	C13	L. Lang, *Absorption Spectra in the Ultraviolet and Visible Region*, Vol. 1, Publishing House of the Hungarian academy of sciences, Budapest, 1963
	C14	E. Malinowski, *Obtaining the Key Set of Typical Vectors by Factor Analysis and Subsequent Isolation of Component Spectra*, Analytica Chimica Acta, 134, 1982, 129-137
	C15	E. Malinowski, Factor Analysis in Chemistry, Third Edition, Wiley-Interscience, New York, 2002

EXAMINER	DATE CONSIDERED

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FORM PTO – 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: ACD-002 APPLICANT(S): Bogomolov et al. SERIAL NO.: 10/668,111 FILING DATE: September 19, 2003 GROUP: 1614

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C16	E. Malinsowki, *Statistical F-Tests for Abstract Factor Analysis and Target Testing*, Journal of Chemometrics, Vol. 3, 1988, p. 49-60
	C17	E. Malinowski, *Symposium on Chemometrics with Environmental Application*, Journal of Chemometrics, Vol. 4, 1990, p. 102
	C18	D.L. Massart et al., *Evaluation and Optimization of Laboratory Methods and Analytical Procedures*, Elsevier, Amsterdam, 1978, Ch. 17
	C19	G. McCabe, *Principal Variables*, Technometrics©, Vol. 26, No. 2, May 1984, p. 137-144
	C20	F. Sánchez et al., *Orthogonal Projection Approach Applied to Peak Purity Assessment*, Anal. Chem., Vol 68, No. 1, 1996, p. 79-85
	C21	B. Vandeginste et al., *Multicomponent Self-Modeling Curve Resolution In High-Performance Liquid Chromatography By Iterative Target Transformation Analysis*, Analytica Chimica Acta, 173, Elsevier, Amsterdam, 1985, p. 253-264
	C22	T. Wennberg et al., *Computer Assisted Scale up from Analytical HPLC to Preparative MPLC for the Separation of Phenolic Compounds*, Chromotographia, 53 (Suppl.), 2001, S240-S245
	C23	W. Windig et al., *Interactive Self-Modeling Mixture Analysis*, Anal. Chem, Vol. 63, No. 14, July 1991, 1425-1432
	C24	R.G. Wolcott et al., *Control of column temperature in reversed-phase liquid chromatography*, Journal of Chromatography A, 869, 2000, p. 211-230

EXAMINER	DATE CONSIDERED

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